PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Sergey Dzekunov

Serial No.: 10/675,592

Filed: September 30, 2003

For: APPARATUS AND METHOD FOR STREAMING ELECTROPORATION

Group Art Unit: 1744

Examiner: Unknown

Atty. Dkt. No.: MAXC:014US

CERTIFICATE OF MAILING
37.C.F.R 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to:, MS MISSING PARTS, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

February 17, 2004 — Date
Michael C. Barrett

INFORMATION DISCLOSURE STATEMENT

MS MISSING PARTS
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/MAXC:014US.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,

Michael C. Barrett
Reg. No. 44,523
Attorney for Applicant

FULBRIGHT & JAWORSKI L.L.P.
600 Congress Avenue, Suite 2400
Austin, Texas 78701
(512) 474-5201

Date: February 17, 2004

Form PTO-1449 (modified)

List of Patents and Publications for Applicant's

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.	Serial No.
MAXC:014US	10/675,592
Applicant	
Sergey Dzekunov	
Filing Date:	**Group:**
September 30, 2003	1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	2001/0001064	5/10/01	Holaday	435	173.6	12/14/00
	A2	2,955,076	10/4/60	Gossling	N/A	N/A	10/4/56
	A3	3,676,325	7/11/72	Smith *et al.*	204	288	6/8/70
	A4	4,075,076	2/21/78	Xylander	204	206	9/30/75
	A5	4,081,340	3/28/78	Zimmermann *et al.*	204	180	1/25/77
	A6	4,192,869	3/11/80	Nicolau *et al.*	424	199	10/17/78
	A7	4,220,916	9/2/80	Zimmermann *et al.*	324	71	4/13/79
	A8	4,252,628	2/24/81	Boulton *et al.*	204	257	2/23/78
	A9	4,321,259	3/23/82	Nicolau *et al.*	424	101	3/22/79
	A10	4,440,386	4/3/84	Achelpohl	271	70	3/4/82
	A11	4,473,563	9/25/84	Nicolau *et al.*	424	224	11/2/81
	A12	4,476,004	10/9/84	Pohl	204	299	10/26/83
	A13	4,478,824	10/23/84	Franco *et al.*	424	101	8/8/83
	A14	4,622,302	11/11/86	Sowers	435	172.2	8/9/84
	A15	4,652,449	3/24/87	Ropars *et al.*	424	101	10/27/83
	A16	4,663,292	5/5/87	Wong *et al.*	435	287	
	A17	4,695,547	9/22/87	Hilliard *et al.*	435	173	4/2/86
	A18	4,699,881	10/13/87	Matschke	435	173	6/4/86
	A19	4,752,586	6/21/88	Ropars *et al.*	435	287	11/20/86
	A20	4,764,473	8/16/88	Matschke *et al.*	435	287	11/4/86
	A21	4,784,737	11/15/88	Ray *et al.*	204	180.1	4/18/86
	A22	4,800,163	1/24/89	Hibi *et al.*	435	287	12/15/87
	A23	4,804,450	2/14/89	Mochizuki *et al.*	204	299	12/10/86

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's	**Applicant** Sergey Dzekunov	
INFORMATION DISCLOSURE STATEMENT		
(Use several sheets if necessary)	**Filing Date:** September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A24	4,822,470	4/18/89	Chang	204	299	10/9/87
	A25	4,840,714	6/20/89	Littlehales	204	180.1	5/13/87
	A26	4,849,089	7/18/89	Marshall, III	204	299	2/21/89
	A27	4,849,355	7/18/89	Wong	435	172.3	12/30/87
	A28	4,874,690	10/17/89	Goodrich, Jr. *et al.*	435	2	8/26/88
	A29	4,882,281	11/21/89	Hilliard *et al.*	435	287	8/26/86
	A30	4,906,576	3/6/90	Marshall, III	435	287	5/8/87
	A31	4,910,140	3/20/90	Dower	435	172.3	4/18/88
	A32	4,923,814	5/8/90	Marshall, III	435	173	4/26/89
	A33	4,931,276	6/5/90	Franco *et al.*	424	533	3/13/89
	A34	4,945,050	7/31/90	Sanford *et al.*	435	172.1	11/13/84
	A35	4,946,793	8/7/90	Marshall, III	435	291	12/12/88
	A36	4,956,288	9/11/90	Barsoum	435	172.3	4/22/88
	A37	4,970,154	11/13/90	Chang	435	172.2	8/30/88
	A38	4,995,957	2/26/91	Ziegler *et al.*	204	182.8	5/9/88
	A39	5,007,995	4/16/91	Takahashi *et al.*	204	299	5/11/89
	A40	5,036,006	7/30/91	Sanford *et al.*	435	170.1	8/17/89
	A41	5,043,261	8/27/91	Goodrich *et al.*	435	2	6/2/89
	A42	5,098,843	3/24/92	Calvin	435	287	7/9/90
	A43	5,100,627	3/31/92	Buican *et al.*	422	108	11/30/89
	A44	5,100,792	3/31/92	Sanford *et al.*	435	172.1	1/24/89
	A45	5,114,681	5/19/92	Bertoncini *et al.*	422	111	3/9/90
	A46	5,124,259	6/23/92	Tada	435	172.1	8/22/90

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's	**Applicant** Sergey Dzekunov	
INFORMATION DISCLOSURE STATEMENT		
(Use several sheets if necessary)	**Filing Date:** September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A47	5,128,257	7/7/92	Baer	435	173	8/31/87
	A48	5,134,070	7/28/92	Casnig	435	173	10/30/90
	A49	5,135,667	8/4/92	Schoendorfer	210	782	6/14/90
	A50	5,137,817	8/11/92	Busta *et al.*	435	173	10/5/90
	A51	5,139,684	8/18/92	Kaali *et al.*	210	748	11/16/90
	A52	5,173,158	12/22/92	Schmukler	204	182.3	7/22/91
	A53	5,232,856	8/3/93	Firth	435	287	7/30/90
	A54	5,283,194	2/1/94	Schmukler	435	287	7/16/92
	A55	5,424,209	6/13/95	Kearney	435	284	3/19/93
	A56	5,501,662	3/26/96	Hofmann	604	20	9/12/94
	A57	5,545,130	8/13/96	Hofmann *et al.*	604	4	10/12/94
	A58	5,612,207	3/18/97	Nicolau *et al.*	435	173.6	3/23/94
	A59	5,676,646	10/14/97	Hofmann *et al.*	604	4	3/14/96
	A60	5,720,921	2/24/98	Meserol	424	44	3/10/95
	A61	5,728,281	3/17/98	Holmström *et al.*	204	403	11/13/96
	A62	6,074,605	6/13/00	Meserol *et al.*	422	33	3/11/96
	A63	6,077,479	7/20/00	Milde and Philp	422	23	7/25/96
	A64	6,090,617	7/18/00	Meserol	435	285.2	12/5/96
	A65	6,485,961 B1	11/26/02	Meserol	435	285.2	7/18/00

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	AU 680890	10/11/94	Austria			

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	**Applicant** Sergey Dzekunov	
	Filing Date: September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
✓	B2	CA 2,214,800	2/22/02	Canada			
✓	B3	CN 1195997	10/14/98	China			
✓	B4	DE 2405119	9/4/75	Germany			Abstract
✓	B5	DE 3603029	8/6/87	Germany			Abstract
✓	B6	DE 4440386	5/15/96	Germany			
	B7	EP 0137504	4/17/85	Europe			
	B8	EP 0343783	11/29/89	Europe			
	B9	EP 0362758	4/11/90	Europe			
	B10	EP 0472772	3/4/92	Europe			
	B11	EP 0798309	10/1/97	Europe			
	B12	JP 1141582	6/2/89	Japan			Abstract
	B13	JP 2131584	5/21/90	Japan			Abstract
	B14	JP 2131585	5/21/90	Japan			Abstract
	B15	JP 2186993	7/23/90	Japan			Abstract
	B16	JP 3195485	8/27/91	Japan			Abstract
	B17	JP 4027393	1/30/92	Japan			Abstract
	B18	JP 62151174	7/6/87	Japan			Abstract
	B19	JP 62171687	7/28/87	Japan			Abstract
	B20	JP 62228277	10/7/87	Japan			Abstract
	B21	JP 62265975	11/18/87	Japan			Abstract
	B22	JP 63141587	6/14/88	Japan			Abstract
	B23	JP 6349068	12/22/94	Japan			Abstract
	B24	JP 7180029	7/18/95	Japan			Abstract

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's	**Applicant** Sergey Dzekunov	
INFORMATION DISCLOSURE STATEMENT		
(Use several sheets if necessary)	**Filing Date:** September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B25	JP 7320720	12/8/95	Japan			Abstract
	B26	WO 01/24830	4/12/01	PCT			
	B27	WO 88/04322	6/16/88	PCT			
	B28	WO 89/02464	3/23/89	PCT			
	B29	WO 89/03426	4/20/89	PCT			
	B30	WO 91/18103	11/28/91	PCT			
	B31	WO 94/21117	9/29/94	PCT			
	B32	WO 96/28199	3/11/96	PCT			
	B33	WO 98/24490	6/11/98	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	"Advanced Coatings for the Medical Industry," Multi-Arc Scientific Coatings, Copyright © Andal Corp.
	C2	"Biological Buffers," In: *The Biological Engineering Handbook*, Bronzino (ed.), CRC Press, pp. 1650, c1995.
	C3	"Ion Bond® 16 Zirconium Nitride Coating," Multi-Arc, Inc., 1996.
	C4	"Ion Bond® 17 Titanium Aluminum Nitride Coating," Multi-Arc, Inc., 1995.
	C5	"Ion Bond® 19 Chromium Nitride Coating," Multi-Arc, Inc., 1995.
	C6	"Ion Bond® Coatings for Instruments, Design Considerations," Multi-Arc, Inc., 1995.
	C7	"Ion Bond® Coatings for Instruments, Most Commonly Asked Questions," Multi-Arc, Inc., 1995.
	C8	"Preparation of certain reagents, anticoagulants and preservative solutions," In: *Practical Haematology*, 5th Edition, Dacie and Lewis (eds.), Appendicies, pp.598, 1975

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's	**Applicant** Sergey Dzekunov	
INFORMATION DISCLOSURE STATEMENT		
(Use several sheets if necessary)	**Filing Date:** September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C9	"The Ion Bond Network," Multi-Arc, Inc., 1995.
	C10	Abatti *et al.*, "Development of a new geometrical form of micropipette: electrical characteristics and an application as a potassium ion selective electrode," *IEEE Trans. Biomed. Eng.*, 39:43-48, 1992.
	C11	Asakami *et al.*, "Materials for electrode of alkali metal thermoelectric converter (AMTEC) (II)," *J. Mater. Sci. Lett.*, 9(8):892-894, 1990.
	C12	Bakker Schut *et al.*, "A new principle of cell sorting by using selective electroporation in a modified flow cytometer," *Cytometry*, 11(6):659-666, 1990.
	C13	Bartoletti *et al.*, "The number of molecules taken up by electroporated cells: quantitative determination," *FEBS Letters*, 256(1-2):4-10, 1989.
	C14	Behrndt and Lunk, "Biocompatibility of TiN preclinical and clinical investigations," *Materials Sciences & Engineering*, A139:58-60, 1991.
	C15	Brüggemann *et al.*, "Low-oxygen-affinity red cells produced in a large-volume, continuous-flow elecroporation system," *Transfusion*, 35(6):478-486, 1995.
	C16	Capizzi *et al.*, "Amifostine mediated protection of normal bone marrow from cytotoxic chemotherapy," *Cancer*, 72:3495-3501, 1993.
	C17	Chassy *et al.*, "Transformation of bacteria by electroporation," *Trends in Biotechnology*, 6(12):303-309, 1988.
	C18	Coll *et al.*, "Metallurgical and Tribological modification of titanium and titanium alloys by plasma assisted techniques," *Workshop H Society for Biomaterials Implat Retrieval Symposium*, September 17, 1992.
	C19	Davalos *et al.*, "Electroporation: bio-electrochemical mass transfer at the nano scale," *Microscale Thermophysics Engineering*, 4:147-159, 2000.
	C20	Djuzenova *et al.*, "Effect of medium conductivity and composition on the uptake of propidium iodide into electropermeabilized myeloma cells," *Biochim Biophys.*, 1284(2):143-152, 1996.
	C21	Dunican and Shivnan, "High frequency tranformation of whole cells of amino acid producing coryneform bacteria using high voltage electroporation," *Bio/Technology*, 7:1067-1070, 1998.
	C22	Egorov and Noikova, "Effect of phase composition of TiN-Ni sintered electrode materials of characteristics of the ESA process," *Sov. Powder Metall Met. Ceram.*, 29(9):705-710, 1991.

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's	**Applicant** Sergey Dzekunov	
INFORMATION DISCLOSURE STATEMENT		
(Use several sheets if necessary)	**Filing Date:** September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C23	Einck and Holaday, "Enhancement of tissue oxygenation by intracellular introduction of inositol hexaphosphate by flow electroporation of red blood cells," In: *Tissue Oxygenation in Acute Medicine (Update in Intensive Care and Emergency Medicine, 33)*, Sibbald *et al.*, (eds.), pp. 357-374, c1998.
	C24	Eppich *et al.*, "Pulsed electric fields for selection of hematopoeitic cells and depletion of tumor cell contaminants," *Nat. Biotechnol.*, 18:882-887, 2000.
	C25	Freeman *et al.*, "Theory of electroporation of planar bilayer membranes: predictions of the aqueous area, change in capacitance, and pore-pore separation," *Biophys. J.*, 67(1):42-56, 1994.
	C26	Gášková *et al.*, "Effect of a high-voltage electric pluses on yeast cells: factors influencing the killing efficiency," *Bioelectrochem. Bioenerget.*, 39:195-202, 1996.
	C27	Gersonde and Nicolau, "Enhancement of the O_2 release capacity and of the Bohr-effect of human red blood cells after incorporation of inositol hexaphosphate by fusion with effector-containing lipid vesicles," In: *Origins of Cooperative Binding by Hemoglobin*, 277-282, 1982.
	C28	Gersonde and Nicolau, "Improvement of the red blood cell O_2 release capacity by lipid vesicle-mediated incorporation of inositol hexaphosphate," *Blut*, 39:1-7, 1979.
	C29	Gersonde and Nicolau, "Modification of the oxygen affinity of intracellular haemoglobin by incorporation of polyphosphates into intact red blood cells and enhanced O_2 release in the capillary system," *Biblthca Haemat.*, 46:81-92, 1980.
	C30	Gersonde and Weiner, "The influence of infusion rate on the acute intravenous toxicity of phytic acid, a calcium-binding agent," *Toxicology*, 22:279-286, 1982.
	C31	Ghosh *et al.*, "Monitoring electropermeabilization in the plasm amembrane of adherent mammilian cells," *Biophys. J.*, 64(5):1602-1609, 1993.
	C32	Graziadei *et al.*, "Introduction of unlabeled proteins into living cells by electroporation and isolation of viable protein-loaded cells using dextran-fluorescein isothiocyanate as a marker for protein uptake," *Anal. Biochem.*, 194:198-203, 1991.
	C33	Groves, "Application of the electrical sizing priciple of Coulter to a new multiparameter system," *IEEE Transactions on Biomedical Engineering*, 27:364-369, 1980.
	C34	Herwijer *et al.*, "high speed photo damage cell selection using bromodeoxyuridine/Hoechst 33342 photo sensitized cell killing," *Cytometry*, 9:143-149, 1988.

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's	**Applicant** Sergey Dzekunov	
INFORMATION DISCLOSURE STATEMENT		
(Use several sheets if necessary)	**Filing Date:** September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C35	Hirai *et al.*, "A new antitumor antibiotic, FR-900482" *J. of Antibiotics*, 40/5:607-611, 1987.
	C36	Hofmann and Evans, "Eletronic genetic—physical and biological aspects of cellular electromanipulation," *IEEE Engineering in Medicine and Biology Magazine*, 6-11, 19-22, 1986.
	C37	Hofmann *et al.*, "Electric field pulses can induce apoptosis," *J. Membr. Biol.*, 169(2):103-109, 1999.
	C38	Huang and Rubinsky, "Microfabricated electroporation chip for single cell membrane permeabilization," *Sensors and Actuators*, 89:242-249, 2001.
	C39	Huang and Rubinsky, "Micro-electroporation: improving the efficiency and understanding of electrical permeabilization of cells," *Biomedical Microdevices*, 2(2):145-150, 1999.
	C40	Kinosita and Tsong, "Voltage-induced conductance in human erythrocyte membranes," *Biochimica et Biophysica Acta*, 554:479-497, 1979.
	C41	Kobayashi *et al.*, "Fabrication of zirconim nitride sintered bodies and the application for electrode materials," *J. Ceram. Soc. Jpn.*, 97(10):1189-1194, (with English summary), 1989 .
	C42	Kotnik and Miklavčič, "Second-order model of membrane electric field induced by alternating external electric fields," *IEEE Trans. Biomed. Eng.*, 47(8):1074-1081, 2000.
	C43	Kullmann *et al.*, "In vitro effects of pentoxifylline on smooth muscle cell migration and blood monocyte production of chemotactic activity for smooth muscle cells: potential therapeutic benefit in the adult respiratory distress syndrome," *Am J. Respir. Cell*, 8:83-88, 1993.
	C44	Kurtz and Gordon, "Transparent conducting electrodes on silicon," *Sol. Energy Mater.*, 15(4):229-236, 1987.
	C45	Lehninger (ed.), In: *Principles of Biochemistry*, Chapter 8: 181-194, 1982.
	C46	Li *et al.*, "Highly efficient, large volume flow electroporation," *Technology in Cancer Research & Treatment*, 1(5):341-349, 2002.
	C47	Lubicki and Jayaram, :High voltage pulse application for the destruction of the gram-negative bacterium yersinia entercolitca," *Bioelectrochem. Bioenerget.*, 43:135-141, 1997.
	C48	Lundqvist *et al.*, "Altering the biochemical state of individual cultured cells and organelles with ultramicroelectrodes," *Proc. Natl. Acad. Sci., USA*, 95:10356-10360, 1998.

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's	**Applicant** Sergey Dzekunov	
INFORMATION DISCLOSURE STATEMENT		
(Use several sheets if necessary)	**Filing Date:** September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C49	Martin *et al.*, "Theoretical analysis of localized heating in human skin subjected to high coltage pusles," *Bioelectrochemistry*, 57(1):55-64, 2002.
	C50	Maurer *et al.*, "Reduction of fretting corrosion of Ti-6A1-4V by various surface treatments," *J. Orthop. Res.*, 11:865-873, 1993.
	C51	Merz *et al.*, "Determination of HIV infection in human bone," *Unfallchirurg*, 941:47-49, (with English summary), 1991.
	C52	Mouneimne *et al.*, "Stable rightward shifts of the oxyhemoglobin dissocation curve induced by encapsulation of inositol hexaphosphate in red blood cells using electroporation," *FEBS Letters*, 275:117-120, 1990.
	C53	Narayan *et al.*, "Diamond, diamond-like and titanium nitride biocompatible coatings for human body parts," *Materials Sciences & Engineering*, B25:5-10, 1994.
	C54	Neumann *et al.*, "Fundamentals of electroporative delivery of drugs and genes," *Bioelectrochem. Bioenerg.*, 48(1):3-16, 1999.
	C55	Neumcke, "Diffusion polarization at lipid bilayer membranes," *Biophysik.*, 7(2):95-105, 1971.
	C56	Nicolau *et al.*, "Incorporation of allosteric effectors of hemoglobin in red blood cells. Physiological effects," *Biblthca haemat.*, 51:92-107, 1985.
	C57	Nicolau *et al.*, "Short- and long-term physiological effects of improved oxygen transport by red blood cells containing inositol hexaphosphate," In: *Phytic Acid: Chemistry and Applications*, Graf (ed.), Chapter 16:265-290, 1986.
	C58	Olofsson *et al.*, "Single-cell electroporation," *Curr. Opin. Biotech.*, 14:29-34, 2003.
	C59	Parham *et al.*, "Optimization of transient gene expression in mammalian cells and potential for scale-up using flow electroporation," *Cytotechnology*, 28:147-155, 1998.
	C60	Pietra *et al.*, "Titanium nitride as a coating for surgical instruments used to collect human tissue for trace metal analysis," *Analyst*, 115:1025-1028, 1990.
	C61	Prausnitz *et al.*, "Quantitative sutdy of molecular transport due to electroporation: uptake of bovine serum albumin by human red blood cell ghosts," *Biophys. J.*, 66:1522-1530, 1994.
	C62	Rols *et al.*, "In vivo electrically mediated protein and gene transfer in murine melanoma," *Nature Biotechnology*, 16:168-171, 1998.

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's	**Applicant** Sergey Dzekunov	
INFORMATION DISCLOSURE STATEMENT		
(Use several sheets if necessary)	**Filing Date:** September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C63	Rols *et al.*, "Highly efficient transfection of mammilian cells by electric field pulses: application to large volumes of cell culture by using a flow system," *Eur. J. Biochem.*, 206(1):115-121, 1992.
	C64	Rols *et al.*, "Electropermeabilization of mammilian cells to macromolecules: control by pulse duration," Biopys. J., 75(3):1415-1423, 1998.
	C65	Rols *et al.* "Temperature effects on electrotransfusion of mammalian cells, *Nucleic Acids Research*, 22(3):540, 1994.
	C66	Ropars *et al.*, "Improved oxygen delivery to tissues and iron chelator transport through the use of lysed and resealed red blood cells: a new perspective on cooley's anemia therapy," *Annals New York Academy of Sciences*, 445:304-315, 1985.
	C67	Ryttsén *et al.*, "Characterization of single-cell electroporation by using patch-clamp and fluorescence microscopy," *Biophysical Journal*, 79:1993-2001, 2000.
	C68	Satomi *et al.*, "Tissue response to implanted ceramic-coated titanium alloys in rats," *J. Oral Rehab.*, 15:339-345, 1988.
	C69	Schaldach *et al.*, "Pacemaker electrodes made of titanium nitride," *Biomed. Technik.*, 34:185-190, 1989, with English abstract.
	C70	Shoji *et al.*, "New fabrication process for Josephson tunnel junctions with (niobium nitride · niobium) double-layered electrodes," *Appl. Phys. Lett.*, 41(11):1097-1099, 1982.
	C71	Sixou and Teissié, "Specific electropermeabilization of leucocytes in a blood sample and application to large volumes of cells," *Biochim Biophys. Acta*, 1028(2):154-160, 1990.
	C72	Susuki, "Biomedical electrode with silicon nitride film," *Jpn. J. Med. Electron. Biol.*, 19(2):114-119, (with English summary), 1981.
	C73	Taheri *et al.*, "A dry electrode for EEG recording," *Electroencephalography and Clinical Neurophysiology*, 90(5):376-383, 1994.
	C74	Tait and Aita, "Aluminum nitride as a corrosion protection coating for steel: self-sealing porous electrode model," *Surf. Eng.*, 7(4):327-330, 1991.
	C75	Teisseire *et al.*, "Physiological effects of high-P_{50} erythrocyte transfusion on piglets," *J. Appl. Phys.*, 58:1810-1817, 1985.
	C76	Teisseire *et al.*, "Significance of low hemoglobin oxygen affinity," 153-159, ??

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's	**Applicant** Sergey Dzekunov	
INFORMATION DISCLOSURE STATEMENT		
(Use several sheets if necessary)	**Filing Date:** September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C77	Teissere *et al.*, "Long-term physiological effects of enhanced O_2 release by inositol hexaphosphate-loaded erythrocytes," *Proc. Natl. Acad. Sci., USA*, 84:6894-6898, 1987.
	C78	Therin *et al.*, "A histomorphometric comparison of the muscular tissue reaction to stainless steel, pure titanium and titanium alloy implant materials," *J. Materials Science: Materials in Medicine*, 2:1-8, 1991.
	C79	Vasilenko *et al.*, "Preparation of porous electrodes from titanium nitrides," *Poroshkovaia Metallurgiia*, 13:39-42, 1973, article in Russian, (with English summary).
	C80	Vanbever *et al.*, "Comparison of the effects of short, high-voltage and long, medium-voltage pulses on skin electrical and transport properties," *J. Control Release*, 60(1):35-47, 1999.
	C81	Vernhes *et al.*, "Chinese hamster ovary cells sensitivity to localized electrical stresses," *Bioelectrochem. Bioenerg.*, 48(1):17-25, 1999.
	C82	Weaver, "Electroporation: a general phenomenon for manipulating cells and tissues," *J. Cell. Biochem.*, 51(4):426-435, 1993.
	C83	Weaver, "Electroporation of cells and tissues," *IEEE Transactions on Plasma Science*, 28(1):24-33, 2000.
	C84	Weiner, "Right shifting of Hb-O_2 dissociation in viable red cells by liposomal technique," *Biol. of the Cell*, 47:65-70, 1983.
	C85	Weisel *et al.*, "Adverse effects of transfusion therapy during abdominal aortic aneurysectomy," *Surgery*, 83:682-690, 1978.
	C86	Wisbey *et al.*, "Application of PVD TiN coating to Co-Cr-Mo based surgical implants," *Biomaterials*, 8:477-480, 1987.
	C87	Wisbey *et al.*, "Titanium release from TiN coated implant materials," *ImechE*, C384/042:9-14, 1989.
	C88	Wolf *et al.*, "Control by pulse parameters of electric field-mediated gene transfer in mammilian cells," *Biophys. J.*, 66(2 pt 1):524-531, 1994.
	C89	Zhao *et al.*, "Direct current (dc)-plasma CVD equipment with auxiliary heating electrodes," *Vacuum*, 42(17):1109-1111, 1991.
	C90	Zhu *et al.*, "Fabrication and characterization of glucose sensors based on a microarray hydrogen peroxide electrode," *Biosensors and Bioelectronics*, 9(4-5):295-300, 1994.

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. MAXC:014US	Serial No. 10/675,592
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT	**Applicant** Sergey Dzekunov	
(Use several sheets if necessary)	**Filing Date:** September 30, 2003	**Group:** 1744

U.S. Patent Documents	Foreign Patent Documents	Other Art
See Page 1	*See Page 3*	*See Page 5*

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C91	Zimmerman *et al.*, "Preparation of erythrocyte ghosts by dielectric breakdown of the cell membrane," *Biochim. Biophys. Acta*, 375(2):209-219, 1975.
	C92	Zimmerman *et al.*, "Development of a new coulter counter system: measurement of the volume, internal conductivity, and dielectric breakdown voltage of a single guard cell protoplast of \textit {{V}iciafaba}}," *J. Membrane Biol.*, 52:37-50, 1980.

25362016.1

EXAMINER:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.